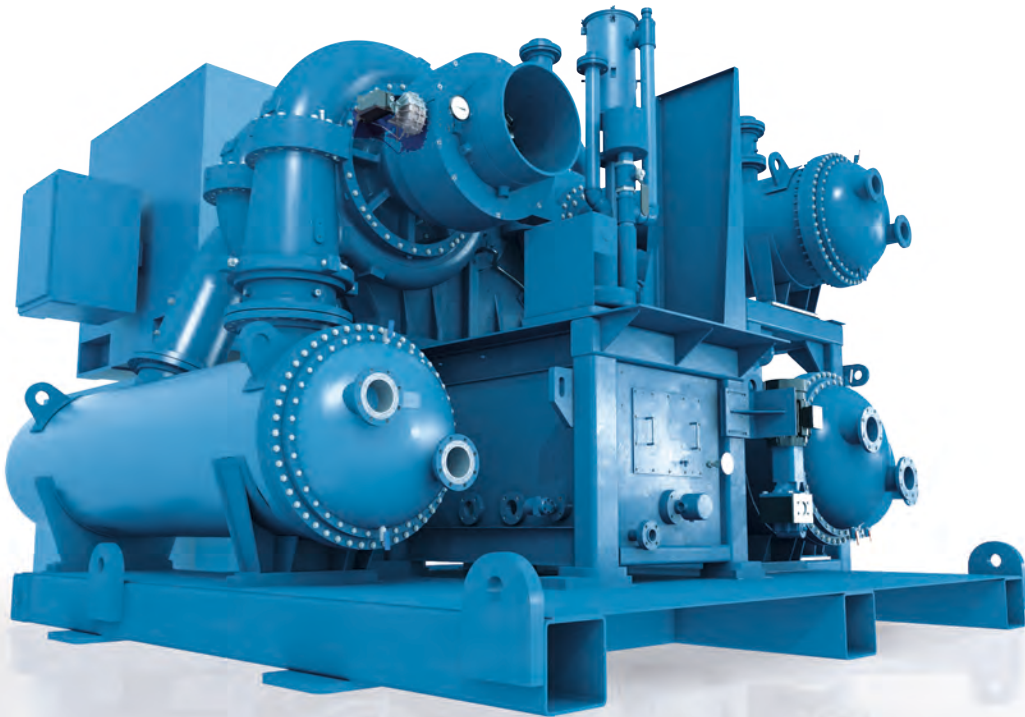




PAP PLUS FH

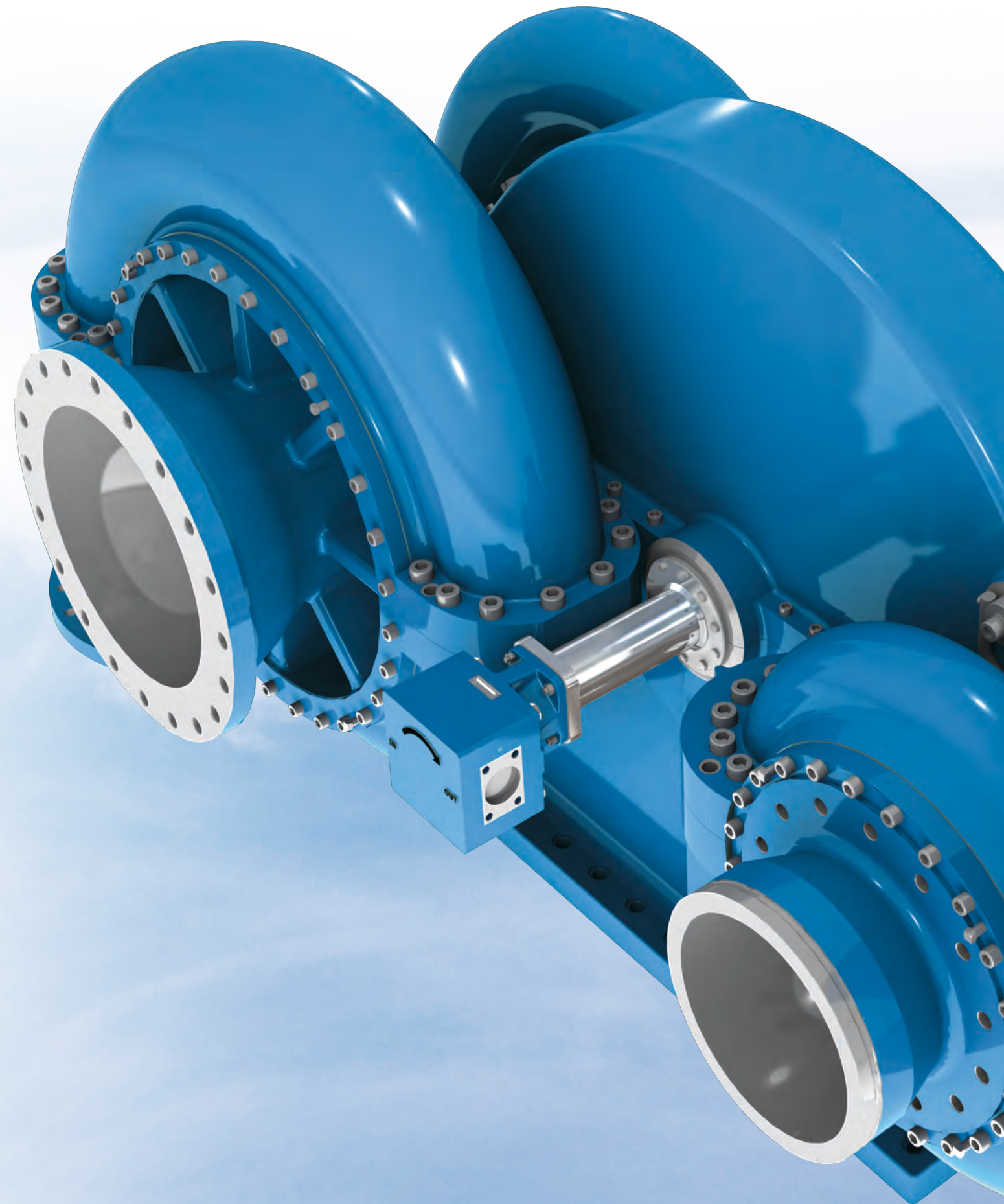
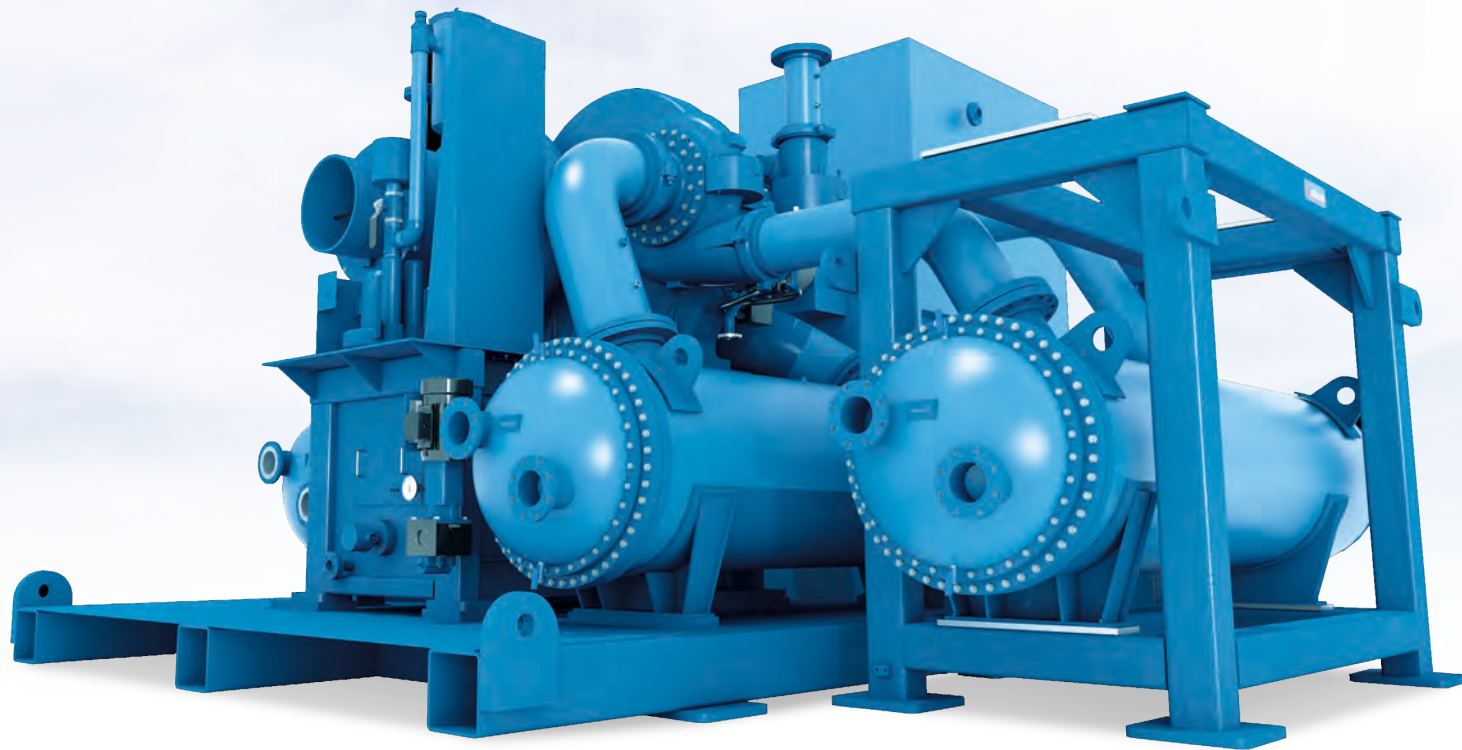
ENGINEERED AIR COMPRESSOR



Demand the Best-In-Class Efficiencies for Your Air Separation Application.

FS-Elliott's PAP Plus® EH centrifugal compressor features innovations that make it ideal for a broad range of industrial air, engineered air, and air separation applications.

As an extension of the PAP Plus line, the EH model provides all the benefits that have made PAP Plus an industry leader – exceptional reliability, high performance, ease of ownership, and exacting customization options. The PAP Plus EH compressor augments these features with a higher flow capacity, increased discharge pressure capability, and maximum design flexibility to meet various global industry needs as well as local code and packaging requirements.



High-Efficiency Aerodynamic Staging

- Designed to site specific conditions to deliver maximum efficiencies.
- Wide operating ranges ideal for a variety of air separation applications.

Impeller Attachment

- Impeller to pinion interface utilizes a shrink fit, factory-controlled process for maximum durability.
- With this simple design, rotor stability, balance, and robustness are key attributes.

Rider Ring

- Optimized rider ring design reduces power loss and maximizes efficiency.

MicraSeal™ Design

- Seals feature micra-enhanced abrasible material to minimize leakage, enhance performance, and extend product life.
- The rotating teeth are allowed to wear into the abrasible material reducing seal clearances that minimize leakage and lead to increased efficiency.

Horizontally-split casing allows for convenient, easy maintenance.

- Maintenance does not require removal of impellers from rotors to remove rotors from the compressor. Rotor assembly stays intact and in optimal balance condition.

- Horizontally-split bearings and seals allow for quick maintenance without removal of the rotors.
- Inter-stage compressor piping does not need to be removed to access and remove the bearings, seals, or bull gear.
- No piping needs to be removed to access the internals.

Vibration Monitoring Options for Reliability

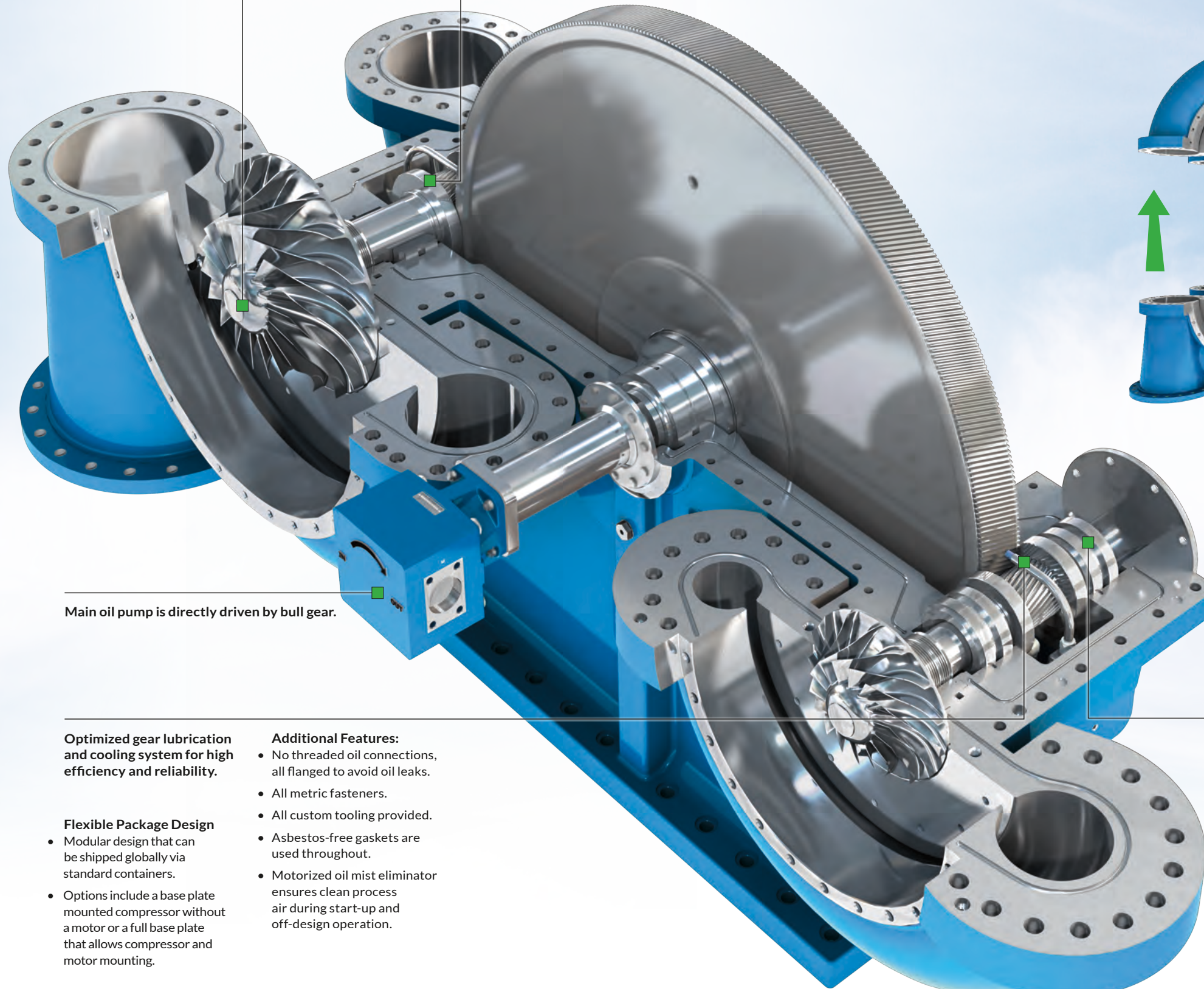
- X or X-Y radial vibration probes.
- Low-speed and high-speed key phaser.
- Axial displacement probe.
- Gear case accelerometer.
- Transmitters or proximity sensors for control panel interface.

Typical Applications

Industrial Air
Automotive
Food & Beverage
Mining
Pharmaceuticals
Power
Steel
Textiles

Engineered Air
Chemicals
Gas Transmission
Liquefied Natural Gas
Oil & Gas
Petrochemicals
Refining

Air Separation
Main Air Compressor (MAC)
Booster Air Compressor (BAC)
Nitrogen (N₂) Booster Compressor
Clean Dry Air (CDA)
Nitrogen (N₂) Feed
Nitrogen (N₂) Recycle
Combined services in one unit



Main oil pump is directly driven by bull gear.

Optimized gear lubrication and cooling system for high efficiency and reliability.

Flexible Package Design

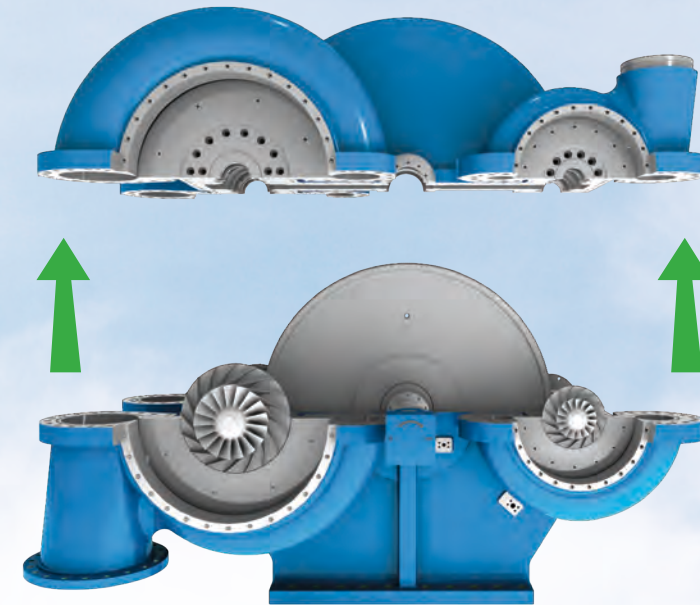
- Modular design that can be shipped globally via standard containers.
- Options include a base plate mounted compressor without a motor or a full base plate that allows compressor and motor mounting.

Additional Features:

- No threaded oil connections, all flanged to avoid oil leaks.
- All metric fasteners.
- All custom tooling provided.
- Asbestos-free gaskets are used throughout.
- Motorized oil mist eliminator ensures clean process air during start-up and off-design operation.

Flexure Pad, Journal Bearing Design

- Provides tighter clearances and optimized rotor stability.
- Available with embedded RTDs.



By the Numbers

- 425–695 m³/min (15,000–24,500 CFM)
1,190–4,475 kW (1,600–6,000 HP)
Up to 24 BARG (350 PSIG)
- Available with 2 to 4 stages of compression.
- Meets API 672 standards along with API 613, API 614, API 617, API 670, API 671, API 677, and API 541; further customization is possible to accommodate more stringent customer specifications and special operating parameters.



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Tangerang, Indonesia

Building on a 50-year tradition of excellence in compressor design and manufacturing, FS-Elliott brings our customers the resources of a global industry leader along with the convenience and responsiveness of local sales and service. Thousands of reliable, hard-working FS-Elliott compressors are installed worldwide.

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Represented by:



ISO 9001- certified
for the design and
manufacture of
centrifugal compressors.

FS-Elliott Co., LLC reserves the right to modify the design or construction of the equipment described in this brochure and to furnish it, as altered, without further reference to the illustrations or information contained herein.

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